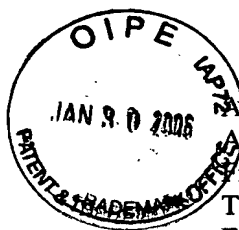


ITW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/510,060
Applicant (s) : Patrick B. Smith et al.
Filed : October 4, 2004
TC/A.U. : 1743
Examiner : Unknown
Title : MOLECULAR TOPOLOGICAL FRACTIONATION OF
MACROMOLECULES
Docket No. : 62431A
Customer No. : 00109

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Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO/SB/08a.

The cited U.S. patents and patent application publications are listed on Form PTO/SB/08a. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

This Statement is being submitted before the mailing date of the first Office Action on the merits. Under 37 C.F.R. §1.97(b)(3), submission of this Statement requires no fee. If this is incorrect, please charge any fees required to Deposit Account No. 04-1512.

Respectfully submitted,

Susan Moeller Zerull
Susan Moeller Zerull
Registration No. 38,367
Phone: 989-636-8858

P. O. Box 1967
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Application Number	10/510,060
Filing Date	October 4, 2004
First Named Inventor	Patrick Smith et al.
Art Unit	1743
Examiner Name	Not Assigned
Attorney Docket Number	62431A

Sheet	1	of	4
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U. S. PATENT DOCUMENTS

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Sheet	2	of	4
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FOREIGN PATENT DOCUMENTS

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Sheet 3 62431A 4

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T6
		K. Cabrera et al., J. High Resol. Chromatogr., 2000, 23, (1) 93-99	<input type="checkbox"/>
		Q. Ching Wang et al., Anal. Chem., 1993, 65, 2243-2248.	<input type="checkbox"/>
		Frantisek Svec et al., Ind. Eng. Chem. Res., 1999, 38, 34-48	<input type="checkbox"/>
		Markus Gerle et al., Macromolecules, 1999, 32, 2629-2637	<input type="checkbox"/>
		W. W. Graessley et al., Macromolecules, 1976, 9 (1), 127-141	<input type="checkbox"/>
		M. De Pooter et al., J. of Applied Polymer Science, 1991, 42, 399-408	<input type="checkbox"/>
		M. Muthukumar et al., Macromolecules, 1989, 22, 1937-1941	<input type="checkbox"/>
		Norio Ishizuka et al., J. of Chromatography A, 1998, 797, 133-137	<input type="checkbox"/>
		Fred E. Regnier, J. High Resol. Chromatogr. 2000, 23, (1) 19-26	<input type="checkbox"/>
		Miroslav Petro et al., J. of Chromatography A, 1996, 752, 59-66	<input type="checkbox"/>
		Miroslav Janco et al., J. of Polymer Science: Part A: Polymer Chem., 38, 2000, 2767-78	<input type="checkbox"/>
		Donna J. Frater et al., J. of Polymer Science: Part B: polymer Physics, 35, 1997, 141-151	<input type="checkbox"/>
		S. Podzimek et al., J. of Applied Polymer Science, 81, 1588-1594 (2001)	<input type="checkbox"/>
		Jiro Kumaki et al., J. Am. Chem. Soc., 1996, 118, 3321-3322	<input type="checkbox"/>
		Svetlana Prokhorova et al., Macromolecules, 1999, 32, 2653-2660	<input type="checkbox"/>
		Timothy von Werne et al., J. Am. Chem. Soc., 1999, 121, 7409-7410	<input type="checkbox"/>
		Isabelle Gusev et al., J. of Chroma. A, 855 (1999), 273-290.	<input type="checkbox"/>

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Sheet 4 62431A 4

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		E.E. Drott et al., J. of Poly. Sci.: Part a-2, 8, 1373-1385, 1970	<input type="checkbox"/>
		Gerrit Stegeman et al., J. of Chrom. A, 657, 1993, 283-303	<input type="checkbox"/>
		Hamish Small, J. of Colloid and Interface Science, Vol 48, No. 1, 1974	<input type="checkbox"/>
		T.A.J. Duke et al., Physical Review Letters, Vol. 80, No. 7, 1552-1555, 1998.	<input type="checkbox"/>
		David L. Smisek et al., Science, Vol. 248, 1221-1223, 1990.	<input type="checkbox"/>
		J. Brandrup and E.H. Immergut, Polymer Handbook, 1989, John Wiley & Sons.	<input type="checkbox"/>
		J. Janca, Field-Flow Fractionation - Analysis of Macromolecules and Particles, 1988, Marcel Dekker.	<input type="checkbox"/>
		J. C. Randall, NMR and Macromolecules, ACS, Washington, D.C., 1984, Chapter 9.	<input type="checkbox"/>
		C. W. Macosko, Rheology, Principles, Measurements, and Applications, Wiley-VCH, New York, 1994, page 505.	<input type="checkbox"/>
		J. Calvin Giddings, Unified Separation Science, Wiley & Sons, Inc., New York, 1991.	<input type="checkbox"/>
		R. K. Iler, The Chemistry of Silica, Wiley & Sons, Inc, New York, 1979, pages 539-544	<input type="checkbox"/>
		W.W. Yau et al., Modern Size-Exclusion Liquid Chromatography, 1979, Wiley & Sons, Inc.	<input type="checkbox"/>
		Hahnfeld, et al., <u>Applications of Anionic Polymerization Research</u> , Quick, Ed., ACS Symposium Series 696, pp. 167-184, 1996	<input type="checkbox"/>
		E. Heftmann Ed., <u>CHROMATOGRAPHY Fundamentals and applications of chromatographic and electrophoretic methods</u> , Volume 22A, 1983, pp. A38-39	<input type="checkbox"/>
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